

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant :	Wang, et al.	Art Unit :	2891
Serial No. :	10/824,838	Examiner :	Matthew L. Reames
Filed :	April 15, 2004	Confirmation No.:	6853
		Notice of Allowance Date:	October 10, 2007
Title :	SPATIAL BANDGAP MODIFICATIONS AND ENERGY SHIFT OF SEMICONDUCTOR STRUCTURES		

MAIL STOP ISSUE FEE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RESPONSE TO NOTICE OF ALLOWANCE

In response to the Notice of Allowance mailed October 10, 2007, enclosed are a completed issue fee transmittal form PTOL-85b and transmittal of 8 sheets of formal drawings. With regard to box 1 on the attached fee transmittal form PTOL-85b, enclosed please find copies of the Revocation and New Power of Attorney and Change of Correspondence Address that were previously filed on October 10, 2007, together with a copy of the Notice of Acceptance of Power of Attorney dated October 18, 2007.

The fees in the amount of \$1050 for the required issue fee and publication fee, including patent copies are being paid concurrently on the Electronic Filing System (EFS) by way of Deposit Account authorization. Please apply any additional charges or credits to our Deposit Account No. 06-1050, referencing 22561-013001.

Respectfully submitted,

Date: 1/9/08



Marc M. Wefers
Reg. No. 56,842

Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

21824668.doc

CERTIFICATE OF MAILING BY EFS-WEB FILING

I hereby certify that this paper was filed with the Patent and Trademark Office using the EFS-WEB system on this date: January 09, 2008

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

7590

10/10/2007

Mark J. Pandiscio
 Pandiscio & Pandiscio, P.C.
 470 Totten Pond Road
 Waltham, MA 02451-1914

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/824,838	04/15/2004	Peidong Wang	AHURA-10	6853

TITLE OF INVENTION: SPATIAL BANDGAP MODIFICATIONS AND ENERGY SHIFT OF SEMICONDUCTOR STRUCTURES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0	\$1020	01/10/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
REAMES, MATTHEW L	2891	372-043010

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☒ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Fish & Richardson P.C.

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Ahura Corporation

Wilmington, MA

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☒ Issue Fee
☒ Publication Fee (No small entity discount permitted)
☒ Advance Order - # of Copies 10

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 06-1050 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

Date

Typed or printed name

Marc M. Wefers

Registration No.

56,842

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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CHANGE OF CORRESPONDENCE ADDRESS Application

Address to:
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	10/824,838
Filing Date	April 15, 2004
First Named Inventor	Wang, et al.
Art Unit	2891
Examiner Name	Matthew L. Reames
Attorney Docket Number	22561-013001
Confirmation Number	6853

Please change the Correspondence Address for the above-identified application to:



The address associated with
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26161

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This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124).

I am the :



Applicant/Inventor.



Assignee of record of the entire interest.
Certificate under 37 CFR 3.73(b) is enclosed.

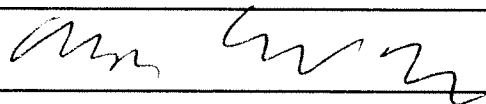


Attorney or agent of record. Registration Number 56,842



Registered practitioner named in the application transmittal letter in an application without an executed oath or declaration. See 37 CFR 1.33(a)(1). Registration Number 56,842

Signature



Typed or Printed
Name

Marc M. Wefers

Date

10/10/2007

Telephone

(617) 542-5070

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.



*Total of _____ forms are submitted.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Wang, et al. Art Unit : 2891
 Serial No. : 10/824,838 Examiner : Matthew L. Reames
 Filed : April 15, 2004 Conf. No. : 6853
 Title : SPATIAL BANDGAP MODIFICATIONS AND ENERGY SHIFT OF
 SEMICONDUCTOR STRUCTURES

Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

REVOCATION AND NEW POWER OF ATTORNEY

Under 37 CFR §3.73(b) AHURA CORPORATION, a corporation, certifies that it is the assignee of 100% of the right, title and interest in the patent application identified above by virtue of:

☒ An assignment from the inventors of the patent application identified above. A copy of the fully executed assignment is attached hereto.

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

The undersigned, acting on behalf of the assignee, hereby revokes all powers of attorney previously granted in the application and appoints:

Marc M. Wefers, Reg. No. 56,842	David L. Feigenbaum, Reg. No. 30,378
Sean P. Daley, Reg. No. 40,978	Chris C. Bowley, Reg. No. 55,016
Timothy A. French, Reg. No. 30,175	John F. Hayden, Reg. No. 37,640
Misha Kim Hill, Reg. No. 59,737	Sean M. Dean, Reg. No. 46,656

with full power of substitution and revocation, to prosecute the application and to transact all business in the United States Patent and Trademark Office connected therewith.

All correspondence regarding the application should be sent to:

PTO Customer Number: 26161

CERTIFICATE OF MAILING BY EFS-WEB FILING

I hereby certify that this paper was filed with the Patent and Trademark Office using the EFS-WEB system on this date: *OCTOBER 10, 2007*

Applicant : Wang, et al.
Serial No. : 10/824,838
Filed : April 15, 2004
Page : 2 of 2

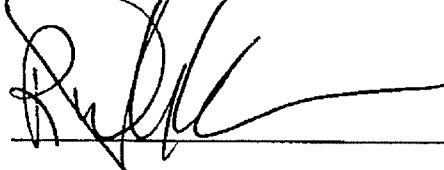
Attorney's Docket No.: 22561-013001 / AHURA-10

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Date: _____

10/9/07

Respectfully submitted,



Title: _____

Chairman & CEO

Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

ASSIGNMENT

For valuable consideration, we, Peidong Wang, of 225 Davis Road, Carlisle, MA 01741; Chih-Cheng Lu, of 3 Selfridge Road, Bedford, MA 01730; Daryoosh Vakhshoori, of 10 Rodgers Street, #205, Cambridge, MA 02142; hereby assign to AHURA CORPORATION, a corporation of Delaware, having a place of business at 46 Jonspin Road, Wilmington, MA 01887, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled SPATIAL BANDGAP MODIFICATIONS AND ENERGY SHIFT OF SEMICONDUCTOR STRUCTURES, filed April 15, 2004, and assigned U.S. Serial Number 10/824,838, this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

DATE: 10/4/07

Peidong Wang
PEIDONG WANG

STATE OF Massachusetts)
COUNTY OF Middlesex) SS.

On 10/4/07, before me, the undersigned, a notary public for the State of Massachusetts, there personally appeared PEIDONG WANG personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this Assignment, who acknowledged having executed the same in his authorized capacity and that by his signature on this Assignment, the person or the entity upon behalf of which he acted, executed this Assignment.

WITNESS my hand and official seal.

Mary F. Kench
Notary Public



DATE: 10/4/07

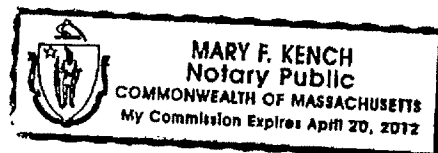
CHIH-CHENG LU

STATE OF Massachusetts)
COUNTY OF Middlesex) SS.

On 10/4/07, before me, the undersigned, a notary public for the State of Massachusetts, there personally appeared CHIH-CHENG LU personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this Assignment, who acknowledged having executed the same in his authorized capacity and that by his signature on this Assignment, the person or the entity upon behalf of which he acted, executed this Assignment.

WITNESS my hand and official seal.

Mary F. Kench
Notary Public



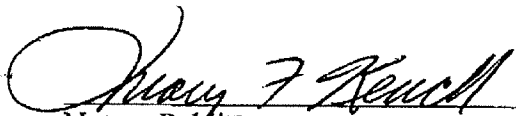
DATE: 10/4/07


DARYOOSH VAKHSHEERI

STATE OF Massachusetts)
COUNTY OF Middlesex) SS.

On 10/4/07, before me, the undersigned, a notary public for the State of Massachusetts, there personally appeared DARYOOSH VAKHSHEERI personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this Assignment, who acknowledged having executed the same in his authorized capacity and that by his signature on this Assignment, the person or the entity upon behalf of which he acted, executed this Assignment.

WITNESS my hand and official seal.


Notary Public





UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/827,003	07/10/2007	Peidong Wang	22561-013001 / AHURA-10

CONFIRMATION NO. 8594

26161
FISH & RICHARDSON PC
P.O. BOX 1022
MINNEAPOLIS, MN 55440-1022

POA ACCEPTANCE LETTER



Date Mailed: 10/18/2007

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/10/2007.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/zretta/

Office of Initial Patent Examination (571) 272-4000 or 1-800-PTO-9199